实验环境：Mac OS High Sierra iterm2

Exercises 1

1. Create a file called message.txt in your home directory and move it into another directory.

$ vim message.txt

$ sudo cp message.txt /home

1. Copy the message.txt you just moved into your home directory.

修改home不可修改权限

1.sudo vim /etc/auto\_master

2.注释掉 #/home

3.sudo automount

4.sudo mkdir /home/test

5. sudo cp message.txt /home/test/

1. Delete both copies of message.txt. Try to do this without using rm.

sudo find /home -name "message.txt" -delete

Exercises 2

1. Create a new directory called workbench in your home directory.

sudo mkdir /home/workbench

1. Without changing directories create a file called readme.txt inside of workbench.

sudo vim /home/workbench/readme.txt

1. Append the numbers 1, 2, and 3 to readme.txt so that each number appears on it’s own line.

打开vim插入三行分别是1，2，3

1. Print readme.txt to the command line.

cat -n readme.txt

显示

1 1

2 2

3 3

1. Use output redirection to create a new file in the workbench directory called list.txt which lists the files and folders in your home directory.

sudo su 进入sh-3.2#

sh-3.2# ls /home >> /home/workbench/list.txt

1. Find out how many characters are in list.txt without opening the file or printing it to the command line.

sh-3.2# wc -m /home/workbench/list.txt

### Exercises3

1. Use man to look up the flag for human-readable output from ls.

man ls

1. Get help with man by typing man man into the console.

man man

1. Wouldn’t it be nice if there was a calendar command? Use apropos to look for such a command, then use man to read about how that command works.

**sh-3.2# apropos calenda**

CalendarAgent(8) - calendar data process

Date::Calc(3pm) - Gregorian calendar date calculations

Date::Calendar(3pm) - Calendar objects for different holiday schemes

Date::Calendar::Profiles(3pm) - Some sample profiles for Date::Calendar and Date::Calendar::Year

Date::Calendar::Year(3pm) - Implements embedded "year" objects for Date::Calendar

cal(1), ncal(1) - displays a calendar and the date of Easter

calendar(1) - reminder service

iwidgets\_calendar(n), iwidgets::calendar(n) - Create and manipulate a monthly calendar

widget\_calendar(n) - widget::calendar Megawidget

### Exercises4

1. Before I organized the photos by year, what command would have listed all of the photos of type .png?

创建/Users/jijiaming/Desktop/test 文件夹，里面有若干.png .txt .docx 文件

sh-3.2# find /Users/jijiaming/Desktop/test -name "\*.png"

1. Before I organized the photos by year, what command would have deleted all of my hiking photos?

sh-3.2# find /Users/jijiaming/Desktop/test -name "\*hiking\*" –delete

1. What series of commands would you use in order to put my figures for a data science course and the pictures I took in the lab into their own folders

sh-3.2# mkdir science

sh-3.2# tar czvf data.tar.gz \*.txt

sh-3.2# tar cf pic.tar.gz \*.png

sh-3.2# tar xzvf pict.tar.gz -C science/

sh-3.2# tar xzvf data.tar.gz -C science/